

2121#9  
4-15-04

01263.001779

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Jebu Jacob Rajan

Application No.: 09/866,597

Filed: May 30, 2001

For: SIGNAL PROCESSING SYSTEM

Examiner: W. Starks

Group Art Unit: 2121

April 6, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

APR 08 2004

Technology Center 2100

FOURTH INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, Applicant directs the Examiner's attention to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

Five United Kingdom Search Reports (dated January 29, 2002, February 1, 2002, February 6, 2002, July 31, 2002, and August 1, 2002) and two European Search Reports (dated November 27, 2003 and December 23, 2003) from related applications, which cite some of the listed documents, are enclosed for the Examiner's convenient reference.

JP 2001/044926 relates to measuring communication quality of a mobile communication system. An English language abstract (two versions) is enclosed as a concise statement of the relevance of this document.

Applicant would like to note that the article "Bayesian Approach to Parameter Estimation and Interpolation of Time-varying Autoregressive Processes Using the Gibbs Sampler," cited in the EP Search Reports, was previously cited in this application in the

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Information Disclosure Statement filed on January 22, 2002. A copy of the article was submitted with that Statement.

Applicant also notes that GB 2 361 339 A is equivalent to WO 00/45375.

#### FORMAL MATTERS


A non-final Office Action was mailed on February 26, 2003. In accordance with 37 C.F.R. § 1.97(c)(2), enclosed is a check for the fee of \$180.00 for this Information Disclosure Statement. Please charge any additional fee required, and credit any overpayment, to Deposit Account No. 06-1205. A duplicate of this paper is enclosed.

#### CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be initialed and returned, indicating that such information has been considered.

Applicant's undersigned attorney may be reached in Washington, D.C. by telephone at (202) 530-1010. All correspondence should continue to be directed to the address given below.

Respectfully submitted,

  
\_\_\_\_\_  
Attorney for Applicant  
Melody H. Wu  
Registration No. 52,376

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160340 v 1

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date: April 6, 2004			ATTY DOCKET NO. <b>01263.001779</b>		APPLICATION NO. <b>09/866,597</b>	
			APPLICANT <b>JEBU JACOB RAJAN</b>			
			FILING DATE <b>May 30, 2001</b>		GROUP <b>2121</b>	
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,386,237	05/31/1983	Virupaksha et al.	179	15.55 R	
	4,905,286	02/27/1990	Sedgwick et al.	381	43	
	5,012,518	04/30/1991	Liu et al.	381	42	
	5,432,884	07/11/1995	Kapanen et al.	395	2.37	
	5,884,269	03/16/1999	Cellier et al.	704	501	
	6,134,518	10/17/2000	Cohen et al.	704	201	
	6,226,613 B1	05/01/2001	Turin	704	256	
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b>  <b>APR 08 2004</b> </div>						
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	GB 2 137 052 A	09/26/1984	Great Britain			In English
	WO 92/22891	12/23/1992	PCT			In English
	EP 0 554 083 A2	08/04/1993	Europe			In English
	EP 0 631 402 A2	12/28/1994	Europe			In English
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Srinivasan, et al., "Query Expansion for Imperfect Speech: Applications in Distributed Learning," Proc. IEEE Workshop on Content-Based Access of Image and Video Libraries, 2000, pp. 50-54					
	Couvreux, et al., "Wavelet-based Non-Parametric HMM's: Theory and Applications," Proc. International Conference Acoustics, Speech and Signal Processing, Istanbul, Vol. 1, June 5-9, 2000, pp. 604-607					
	Hopgood, et al., "Bayesian Single Channel Blind Deconvolution Using Parametric Signal and Channel Models," Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, New Paltz, NY, October 17-20, 1999, pp. 151-154					
	Andrieu, et al., "Bayesian Blind Marginal Separation of Convolutively Mixed Discrete Sources," IEEE Proc., 1998, pp. 43-52					
EXAMINER			DATE CONSIDERED			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	EP 0 674 306 A2	09/27/1995	Europe			In English
	WO 98/38631	09/03/1998	PCT			In English
	GB 2 332 054 A	06/09/1999	Great Britain			In English
	GB 2 332 055 A	06/09/1999	Great Britain			In English
	WO 99/28760	06/10/1999	PCT			In English
	WO 99/28761	06/10/1999	PCT			In English
	EP 0 952 589 A2	10/27/1999	Europe			In English
	WO 99/64887	12/16/1999	PCT			In English
	WO 00/11650	03/02/2000	PCT			In English
	EP 0 996 112 A2	04/26/2000	Europe			In English
	WO 00/38179	06/29/2000	PCT			In English
	GB 2 345 967 A	07/26/2000	Great Britain			In English
	EP 1 022 583 A2	07/26/2000	Europe			In English

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)


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	WO 00/45375	08/03/2000	PCT			In English
	WO 00/54168	09/14/2000	PCT			In English
	GB 2 349 717 A	11/08/2000	Great Britain			In English
	JP 2001/044926	02/16/2001	Japan			Abstract
	GB 2 356 106 A	05/09/2001	Great Britain			In English
	GB 2 356 107 A	05/09/2001	Great Britain			In English
	GB 2 356 313 A	05/16/2001	Great Britain			In English
	GB 2 356 314 A	05/16/2001	Great Britain			In English
	GB 2 360 670 A	09/26/2001	Great Britain			In English
	GB 2 361 339 A	10/17/2001	Great Britain			In English
	EP 1 160 768 A2	12/05/2001	Europe			In English
	GB 2 363 557 A	12/19/2001	Great Britain			In English
	EP 1 034 441 B1	04/02/2003	Europe			In English

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)


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